

Publication

EP 0581230 A3 19940223

Application

EP 93111937 A 19930726

Priority

JP 21969692 A 19920727

Abstract (en)

[origin: EP0581230A2] An activated, ionized fuel which allows a reduction in the generation of nitrogen oxides is produced by an apparatus having an extremely simple structure, and combustion of the activated, ionized fuel is realized by a combustion system. Both a liquid fuel injection valve (25) and a water injection valve (30) inject a liquid fuel and water toward a mixing-stirring chamber (31). The liquid fuel and water injected opposite to each other are mixed together by stirring in the mixing-stirring chamber (31), thereby being activated, ionized as well as emulsified. Since it has been activated, ionized as well as emulsified, the fuel is highly combustible and allows a reduction in the content of nitrogen oxides in the exhaust gas. <IMAGE>

IPC 1-7

F23K 5/12; **F23D 11/16**

IPC 8 full level

C10L 1/32 (2006.01); **F23C 99/00** (2006.01); **F23D 11/16** (2006.01); **F23K 5/12** (2006.01)

CPC (source: EP KR)

F23D 11/16 (2013.01 - EP KR); **F23K 5/12** (2013.01 - EP KR)

Citation (search report)

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Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0581230 A2 19940202; **EP 0581230 A3 19940223**; CN 1081752 A 19940209; JP H0642734 A 19940218; KR 940002542 A 19940217; TW 221457 B 19940301

DOCDB simple family (application)

EP 93111937 A 19930726; CN 93109341 A 19930727; JP 21969692 A 19920727; KR 930014201 A 19930726; TW 82100994 A 19930212